ELSEVIER

Journal of Non-Crystalline Solids 238 (1998) 267–268

JOURNAL OF NON-CRYSTALLINE SOLIDS

# Author Index

Adam, J.L., see Binnemans, K. 238 (1998) 11
Aguir, K., see Seguin, J.-L. 238 (1998) 253
Akai, T., see Fukumi, K. 238 (1998) 143
Andreev, N.S., see Boiko, G.G. 238 (1998) 175
Ansart, F., see Mege, S. 238 (1998) 37
Ault, K.M., see Secco, R.A. 238 (1998) 244
Avramov, I., Viscosity of glassforming melts 238 (1998) 6

Belkhader, K., see Husson, E. 238 (1998) 66
Belostotsky, V., Ion-exchange processes in silicate glasses: the role of oxygen 238 (1998) 171
Benítez, J.J., see Díaz, A. 238 (1998) 163
Benoit, R., see Husson, E. 238 (1998) 66
Bény, J.M., see Husson, E. 238 (1998) 66
Binnemans, K., R. Van Deun, C. Görller-Walrand and J.L. Adam, Spectroscopic properties of trivalent lanthanide ions in fluorophosphate glasses 238 (1998) 11
Boiko, G.G., N.S. Andreev and A.V. Parkachev, Structure of pyrophosphate $2ZnO \cdot P_2O_5$–$2Na_2O \cdot P_2O_5$ glasses according to molecular dynamics simulation 238 (1998) 175

Carchano, H., see Seguin, J.-L. 238 (1998) 253
Chayahara, A., see Fukumi, K. 238 (1998) 143
Cheng, K., Carbon effects on crystallization kinetics of $Li_2O$–$Al_2O_3$–$SiO_2$ glasses 238 (1998) 152
Claußen, O., see Gerlach, S. 238 (1998) 75

Delugeard, Y., see Rocherullé, J. 238 (1998) 51
Díaz, A., J.J. Benítez, Y. Laurent and J.A. Odriozola, Diffuse reflectance infrared spectra and their relation to the thermal stability of aluminophosphate oxynitrides as a function of nitrogen content 238 (1998) 163
Donth, E., see Kahle, S. 238 (1998) 234
Doremus, R.H., see Wang, S.X. 238 (1998) 198
Doremus, R.H., see Wang, S.X. 238 (1998) 214

Efimov, A.M., T.G. Kostyreva and G.A. Sycheva, Water-related IR absorption spectra for alkali zinc pyrophosphate glasses 238 (1998) 124
El Hadadi, B., see Seguin, J.-L. 238 (1998) 253
Emmerling, A., see Lorenz, C. 238 (1998) 1
Erre, R., see Husson, E. 238 (1998) 66
Ewing, R.C., see Wang, S.X. 238 (1998) 198
Ewing, R.C., see Wang, S.X. 238 (1998) 214

Fleet, M.E., see Muthupari, S. 238 (1998) 259
Fricke, J., see Klett, U. 238 (1998) 45
Fricke, J., see Lorenz, C. 238 (1998) 1
Fujii, K., see Fukumi, K. 238 (1998) 143
Fukumi, K., A. Chayahara, K. Kadono, H. Kageyama, T. Akai, N. Kitamura, M. Makihara, K. Fujii and J. Hayakawa, Structural investigation on implanted copper ions in silica glass by XAFS spectroscopy 238 (1998) 143

Gerlach, S., O. Claußen and C. Rüssel, Thermodynamics of iron in alkali–magnesia–silica glasses 238 (1998) 75
Giridhar, A., and S. Mahadevan, Mean atomic volume, $T_g$ and electrical conductivity of $Cu_x(As_{0.4}Te_{0.6})_{100-x}$ glasses 238 (1998) 225
Görller-Walrand, C., see Binnemans, K. 238 (1998) 11
Gütlich, P., see Schultz-Münzenberg, C. 238 (1998) 83

Hayakawa, J., see Fukumi, K. 238 (1998) 143
Heo, J., J. Min Yoon and S.-Y. Ryou, Raman spectroscopic analysis on the solubility mechanism of $La^{3+}$ in $GeS_2$–$Ga_2S_3$ glasses 238 (1998) 115
Hilgendorff, M., see Lorenz, C. 238 (1998) 1
Husson, E., J.M. Bény, C. Proust, R. Benoit, R. Erre, Y. Vaills and K. Belkhader, Raman and Brillouin scattering and XPS spectroscopy in $NaPb_{0.5}Bi_{0.33}PO_4$ glass 238 (1998) 66
Hwa, L.-G., S.-L. Hwang and L.-C. Liu, Infrared and Raman spectra of calcium alumino–silicate glasses 238 (1998) 193
Hwang, S.-L., see Hwa, L.-G. 238 (1998) 193

Kadono, K., see Fukumi, K. 238 (1998) 143
Kageyama, H., see Fukumi, K. 238 (1998) 143
Kahle, S., M. Schulz and E. Donth, Kinetic structures for glass transition in a modified 2d Fredrickson model 238 (1998) 234
Kitamura, N., see Fukumi, K. 238 (1998) 143
Klett, U., and J. Fricke, Gelation of vanadium (V)oxide-triisopropoxide doped silica gels 238 (1998) 45

Kostyreva, T.G., see Efimov, A.M. 238 (1998) 124
Kudrna, J., I. Pelant, S. Surendran, J. Stuchlík, A. Poruba and P. Malý, Ultrafast carrier dynamics in wide gap amorphous silicon 238 (1998) 57

Laurent, Y., see Díaz, A. 238 (1998) 163
Lecante, P., see Mege, S. 238 (1998) 37
Liu, L.-C., see Hwa, L.-G. 238 (1998) 193
Lorenz, C., A. Emmerling, J. Fricke, T. Schmidt, M. Hilgendorff, L. Spanhel and G. Müller, Aerogels containing strongly photoluminescing zinc oxide nanocrystals 238 (1998) 1

Magafas, L., The effect of thermal annealing on the optical properties of a-SiC:H films 238 (1998) 158
Mahadevan, S., see Giridhar, A. 238 (1998) 225
Makihara, M., see Fukumi, K. 238 (1998) 143
Malý, P., see Kudrna, J. 238 (1998) 57
Matecki, M., see Rocherullé, J. 238 (1998) 51
Matsuda, O., see Takeuchi, H. 238 (1998) 91
Mege, S., M. Verelst, P. Lecante, E. Perez, F. Ansart and J.M. Savariault, Surfactant effects in vanadium alkoxide derived gels 238 (1998) 37
Meisel, W., see Schultz-Münzenberg, C. 238 (1998) 83
Min Yoon, J., see Heo, J. 238 (1998) 115
Müller, G., see Lorenz, C. 238 (1998) 1
Murase, K., see Takeuchi, H. 238 (1998) 91
Muthupari, S., and M.E. Fleet, XANES of sixfold silicon in $MoO_3$–$SiO_2$ – $P_2O_5$ glasses 238 (1998) 259

Němec, L., and J. Ullrich, Calculations of interactions of gas bubbles with glass liquids containing sulphates 238 (1998) 98

Odriozola, J.A., see Díaz, A. 238 (1998) 163

Parkachev, A.V., see Boiko, G.G. 238 (1998) 175
Pelant, I., see Kudrna, J. 238 (1998) 57
Perez, E., see Mege, S. 238 (1998) 37
Poruba, A., see Kudrna, J. 238 (1998) 57
Proust, C., see Husson, E. 238 (1998) 66

Rocherullé, J., M. Matecki and Y. Delugeard, Heat capacity measurements of Mg–Y–Si–Al–O–N glasses 238 (1998) 51
Rüssel, C., see Gerlach, S. 238 (1998) 75
Ryou, S.-Y., see Heo, J. 238 (1998) 115

Savariault, J.M., see Mege, S. 238 (1998) 37
Schmidt, T., see Lorenz, C. 238 (1998) 1
Schultz-Münzenberg, C., W. Meisel and P. Gütlich, Changes of lead silicate glasses induced by leaching 238 (1998) 83
Schulz, M., see Kahle, S. 238 (1998) 234
Secco, R.A., and K.M. Ault, Ionic transport and structure in high pressure $Na_2O$:$GeO_2$ glasses 238 (1998) 244
Seguin, J.-L., B. El Hadadi, H. Carchano and K. Aguir, Composition study of high temperature sputtered amorphous $Ga_xAs_{1-x}$ films 238 (1998) 253
Spanhel, L., see Lorenz, C. 238 (1998) 1
Stuchlík, J., see Kudrna, J. 238 (1998) 57
Surendran, S., see Kudrna, J. 238 (1998) 57
Sycheva, G.A., see Efimov, A.M. 238 (1998) 124

Takeuchi, H., O. Matsuda and K. Murase, Reversible mesoscopic structural transformations in vacuum evaporated amorphous $Ge_{30}Se_{70}$ film studied by Raman scattering 238 (1998) 91
Tan, C.Z., Review and analysis of refractive index temperature dependence in amorphous $SiO_2$ 238 (1998) 30
Tyagi, V., and A.K. Varshneya, Measurement of progressive stress buildup during ion exchange in alkali aluminosilicate glass 238 (1998) 186

Ullrich, J., see Němec, L. 238 (1998) 98

Vailles, Y., see Husson, E. 238 (1998) 66
Van Deun, R., see Binnemans, K. 238 (1998) 11
Varshneya, A.K., see Tyagi, V. 238 (1998) 186
Verelst, M., see Mege, S. 238 (1998) 37

Wang, L.M., see Wang, S.X. 238 (1998) 198
Wang, L.M., see Wang, S.X. 238 (1998) 214
Wang, S.X., L.M. Wang, R.C. Ewing and R.H. Doremus, Ion beam-induced amorphization in MgO–$Al_2O_3$–$SiO_2$. II. Empirical model 238 (1998) 214
Wang, S.X., L.M. Wang, R.C. Ewing and R.H. Doremus, Ion beam-induced amorphization in MgO–$Al_2O_3$–$SiO_2$. I. Experimental and theoretical basis 238 (1998) 198

ELSEVIER

Journal of Non-Crystalline Solids 238 (1998) 269–271

JOURNAL OF NON-CRYSTALLINE SOLIDS

# Subject Index

**Aerogels**
Gels, Surface Reactions 238 (1998) 37
Luminescence, Nanocrystalline Materials 238 (1998) 1
Sol–Gel Processes, Vanadium Oxide 238 (1998) 45

**Auger Electron Spectroscopy**
Defects, Ion Exchange 238 (1998) 171

**Brillouin Scattering**
Phosphates, Raman Spectra, Thermal Properties 238 (1998) 66

**Bubbles**
Oxidation Reduction, Oxides, Reactions 238 (1998) 98

**Chalcogenide Glasses**
Conductivity, Density, Glass Transition 238 (1998) 225
Deposition Techniques, Sputtering 238 (1998) 253
Raman Spectra, Structural Relaxation 238 (1998) 91

**Chalcogenides**
Phase Separation, Raman Spectra 238 (1998) 115

**Chemical Modification**
Oxides, XPS 238 (1998) 83

**Conductivity**
Chalcogenide Glasses, Density, Glass Transition 238 (1998) 225

**Coordination**
EXAFS, Glasses Containing Transition Metal Ions, Ion Implantation 238 (1998) 143
Phosphates, Structure, XANES 238 (1998) 259

**Crystallization**
Nucleation, Oxidation Reduction 238 (1998) 152

**Defects**
Auger Electron Spectroscopy, Ion Exchange 238 (1998) 171

**Density**
Chalcogenide Glasses, Conductivity, Glass Transition 238 (1998) 225

**Deposition Techniques**
Chalcogenide Glasses, Sputtering 238 (1998) 253

**Differential Scanning Calorimetry**
Heat Capacity, Oxides 238 (1998) 51

**EXAFS**
Coordination, Glasses Containing Transition Metal Ions, Ion Implantation 238 (1998) 143

**Fluoride Glasses**
Luminescence, Phosphates, Rare Earth Ions 238 (1998) 11

**Fragility**
Modelling, Viscosity 238 (1998) 6

**Gallium Phosphide**
Ion Irradiation, Radiation Effects 238 (1998) 214

**Gels**
Aerogels, Surface Reactions 238 (1998) 37
Liquids, Oxidation Reduction, Voltammetry 238 (1998) 75

**Germanates**
Ionic Conductivity, Pressure Effects, Structure 238 (1998) 244

**Glass Formation**
Ion Irradiation, Radiation Effects 238 (1998) 198

**Glass Transition**
Chalcogenide Glasses, Conductivity, Density 238 (1998) 225
Kinetics, Modelling 238 (1998) 234

**Glasses Containing Transition Metal Ions**
Coordination, EXAFS, Ion Implantation 238 (1998) 143

**Heat Capacity**
Differential Scanning Calorimetry, Oxides 238 (1998) 51

**Hydrogen Effects**
Luminescence, Relaxation, Silicon 238 (1998) 57

**Hydrogen in Glass**
Infra-red Absorption, Modelling, Phosphates 238 (1998) 124
Optical Properties, Silicon Carbide 238 (1998) 158

**Infra-red Absorption**
Hydrogen in Glass, Modelling, Phosphates 238 (1998) 124

Nitrogen-Containing Glass, Phosphates, Thermal Properties 238 (1998) 163
Raman Spectra 238 (1998) 193

**Ion Exchange**
Auger Electron Spectroscopy, Defects 238 (1998) 171
Surface Properties, Thermal expansion 238 (1998) 186

**Ion Implantation**
Coordination, EXAFS, Glasses Containing Transition Metal Ions 238 (1998) 143

**Ion Irradiation**
Gallium Phosphide, Radiation Effects 238 (1998) 214
Glass Formation, Radiation Effects 238 (1998) 198

**Ionic Conductivity**
Germanates, Pressure Effects, Structure 238 (1998) 244

**Kinetics**
Glass Transition, Modelling 238 (1998) 234

**Liquids**
Gels, Oxidation Reduction, Voltammetry 238 (1998) 75

**Luminescence**
Aerogels, Nanocrystalline Materials 238 (1998) 1
Fluoride Glasses, Phosphates, Rare Earth Ions 238 (1998) 11
Hydrogen Effects, Relaxation, Silicon 238 (1998) 57

**Modelling**
Fragility, Viscosity 238 (1998) 6
Glass Transition, Kinetics 238 (1998) 234
Hydrogen in Glass, Infra-red Absorption, Phosphates 238 (1998) 124
Molecular Dynamics, Phosphates 238 (1998) 175
Refractive Index, Silica 238 (1998) 30

**Molecular Dynamics**
Modelling, Phosphates 238 (1998) 175

**Nanocrystalline Materials**
Aerogels, Luminescence 238 (1998) 1

**Nitrogen-Containing Glass**
Infra-red Absorption, Phosphates, Thermal Properties 238 (1998) 163

**Nucleation**
Crystallization, Oxidation Reduction 238 (1998) 152

**Optical Properties**
Hydrogen in Glass, Silicon Carbide 238 (1998) 158

**Oxidation Reduction**
Bubbles, Oxides, Reactions 238 (1998) 98
Crystallization, Nucleation 238 (1998) 152
Gels, Liquids, Voltammetry 238 (1998) 75

**Oxides**
Bubbles, Oxidation Reduction, Reactions 238 (1998) 98
Chemical Modification, XPS 238 (1998) 83
Differential Scanning Calorimetry, Heat Capacity 238 (1998) 51

**Phase Separation**
Chalcogenides, Raman Spectra 238 (1998) 115

**Phosphates**
Brillouin Scattering, Raman Spectra, Thermal Properties 238 (1998) 66
Coordination, Structure, XANES 238 (1998) 259
Fluoride Glasses, Luminescence, Rare Earth Ions 238 (1998) 11
Hydrogen in Glass, Infra-red Absorption, Modelling 238 (1998) 124
Infra-red Absorption, Nitrogen-Containing Glass, Thermal Properties 238 (1998) 163
Modelling, Molecular Dynamics 238 (1998) 175

**Pressure Effects**
Germanates, Ionic Conductivity, Structure 238 (1998) 244

**Radiation Effects**
Gallium Phosphide, Ion Irradiation 238 (1998) 214
Glass Formation, Ion Irradiation 238 (1998) 198

**Raman Spectra**
Brillouin Scattering, Phosphates, Thermal Properties 238 (1998) 66
Chalcogenide Glasses, Structural Relaxation 238 (1998) 91
Chalcogenides, Phase Separation 238 (1998) 115
Infra-red Absorption 238 (1998) 193

**Rare Earth Ions**
Fluoride Glasses, Luminescence, Phosphates 238 (1998) 11

**Reactions**
Bubbles, Oxidation Reduction, Oxides 238 (1998) 98

**Refractive Index**
Modelling, Silica 238 (1998) 30

**Relaxation**
Hydrogen Effects, Luminescence, Silicon 238 (1998) 57

**Silica**
Modelling, Refractive Index 238 (1998) 30

**Silicon Carbide**
Hydrogen in Glass, Optical Properties 238 (1998) 158

**Silicon**
Hydrogen Effects, Luminescence, Relaxation 238 (1998) 57

**Sol–Gel Processes**
Aerogels, Vanadium Oxide 238 (1998) 45

**Sputtering**
Chalcogenide Glasses, Deposition Techniques 238 (1998) 253

**Structural Relaxation**
Chalcogenide Glasses, Raman Spectra 238 (1998) 91

**Structure**
Coordination, Phosphates, XANES 238 (1998) 259
Germanates, Ionic Conductivity, Pressure Effects 238 (1998) 244

**Surface Properties**
Ion Exchange, Thermal expansion 238 (1998) 186

**Surface Reactions**
Aerogels, Gels 238 (1998) 37

**Thermal Properties**
Brillouin Scattering, Phosphates, Raman Spectra 238 (1998) 66
Infra-red Absorption, Nitrogen-Containing Glass, Phosphates 238 (1998) 163

**Thermal expansion**
Ion Exchange, Surface Properties 238 (1998) 186

**Vanadium Oxide**
Aerogels, Sol–Gel Processes 238 (1998) 45

**Viscosity**
Fragility, Modelling 238 (1998) 6

**Voltammetry**
Gels, Liquids, Oxidation Reduction 238 (1998) 75

**XANES**
Coordination, Phosphates, Structure 238 (1998) 259

**XPS**
Chemical Modification, Oxides 238 (1998) 83